What is claimed is:

1. An integrated glass ceramic system for providing internal communications, comprising,

a plurality of glass ceramic components, one of the glass ceramic components being a patterned component made of a photostructurable glass ceramic material, the glass ceramic components are coupled together for forming a support structure,

operational devices supported by the support structure, two of the operational devices are optical devices for communicating an optical signal through one of the glass ceramic material components providing an optical path along which is communicated the optical signal, two of the operational devices are electronic devices for communicating an electrical signal through one of the glass ceramic material components providing an electrical path along which is communicated the electrical signal, and

an optoelectronic communications grid enabling intercommunications of the electrical signal between the two electronic devices along the electrical path and enabling intercommunications of the optical signal along the optical path and between the two optical devices.

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2. The system of claim 1 wherein,

the operational devices are selected from the group consisting of electronic and electrical and photonic and fluidic and microelectromechanical systems devices.

3. The system of claim 1 wherein,

the electrooptical communications grid comprises an electronic and electrical communications grid and an optical communications grid, the optical communications grid comprising a free-space optical communication path through one of the glass ceramic materials.

4. The system of claim 1 wherein,

the patterned components are direct-write laser milled components, photolithographic exposed and baked and etched components, and direct-write laser exposed and baked and etched components.

5. The system of claim 1 wherein,

the operational devices comprise photonic devices for communicating optical signals through the optical communications path.

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6. The system of claim 1 wherein,

the operational devices comprise photonic devices for communicating optical signals through the optical communications path, the photonic devices selected from the group consisting of optical transceivers and optical transmitters and optical receivers and optical detectors and mirrors and splitters and reflectors, polarizers and lenses and optical fibers.

7. The system of claim 1 wherein,

one of the glass ceramic components is a molded component.

8. The system of claim 1 wherein,

one of the glass ceramic components is an annealed component.

9. The system of claim 1 wherein,

one of the glass ceramic material components is a tempered component.

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10. An integrated glass ceramic system for providing internal communications, comprising,

a molded component made of a photostructurable glass ceramic material,

a patterned component made of a photostructurable glass ceramic material, the molded component and patterned component are coupled together for forming at least part of a support structure,

electrodevices encapsulated within and supported by the support structure,

optodevices encapsulated within and supported by the support structure, and

an electrical communications grid for enabling intercommunications between the electrodevices devices, and

an optical communications grid for enabling optical intercommunications between the optodevices.

11. The system of claim 10 wherein

the electrodevices are selected from the group consisting of electronic, electrical and microelectromechanical systems devices,

the optodevices are elected from the group consisting of optical transceivers and optical transmitters and optical receivers and optical detectors and mirrors and splitters and reflectors and polarizers and lenses and optical fibers.

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12. The system of claim 10 wherein,

the support structure provides an optical path within the optical communications grid.

13. The system of claim 10 wherein,

the support structure defines a housing encapsulating the electrodevices and optodevices.

14. An integrated glass ceramic system for providing internal communications, comprising,

patterned components made of a photostructurable glass ceramic material, the patterned component are coupled together for forming a support structure, one of the patterned components is a molded patterned components, one of the patterned components is a tempered patterned component,

electrodevices encapsulated within and supported by the support structure,

optodevices encapsulated within and supported by the support structure,

an electrical communications grid for enabling intercommunications between the electrodevices devices, and

an optical communications grid for enabling optical intercommunications between the optodevices and for enabling the external communications, one of the components provides an optical path within the optical communications grid.

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15. The system of claim 14, wherein
the electrodevices and optodevices comprise a sensor.

16. The system of claim 14, wherein
the support structure defines a housing encapsulating the electrodevices and optodevices.

17. The system of claim 14, wherein,
the support structure defines a housing and provides an optical communications path for enabling the external communications.

18. The system the claim 14 wherein,
the optical communications grid comprises a free-space path through one of the patterned components.

19. The system of claim 14 wherein,
the electrical communications grid comprising a conducting feedthrough path through one of the patterned components.

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